

# ZIXI-INTEGRATED SENCORE VIDEO DELIVERY SOLUTIONS

SENCORE LEVERAGES ZIXI TO OFFER RELIABLE AND COST-EFFECTIVE DISTRIBUTION OF BROADCAST WORKFLOWS OVER IP

## AT A GLANCE

### SENCORE SOLUTIONS WITH ZIXI INTEGRATION

- **MRD 7000** - A multichannel multiformat receiver decoder
- **DMG 7000** - A software-based gateway platform focusing on converting traditional broadcast MPEG/IP systems to internet-based protocols
- **SCP 2100** - A signal acquisition platform for collecting nearly any signal from remote locations
- **DMG 4000** - A modular, high capacity media gateway for video distribution and contribution

### KEY FEATURES

- **Multi-Channel Decoding** – Multi-channel decoding of MPEG2/MPEG4/HEVC, up to UHD resolutions at 160Mbps video with HDR
- **Protocol-Agnostic** – Protocol agnostic platform for transmitting and receiving
- **Signal Acquisition** – Receive signals at remote locations, transcode to H.264 and transport to headend via Zixi
- **High-Density Encoding** – Contribution encoding platform with redundant transport paths via fiber and Zixi to cloud providers



## ADOPTING THE OPEN INTERNET AS A RELIABLE AND COST-EFFECTIVE VIDEO TRANSPORT METHOD

The broadcasting industry is quickly adopting the open internet as a reliable, secure, cost-effective and quick-to-deploy method for video transport. Zixi and its unique Software-Defined Video Platform has made such revolution possible by enabling the video industry to utilize readily available internet connections for contribution and distribution of live video content.

Sencore has partnered with Zixi to integrate its technology in its products to provide cost-effective and easily-deployable solutions.

## RELIABLE LOW-COST DISTRIBUTION WORKFLOW OVER IP USING SENCORE SOLUTIONS

Sencore's **MRD 7000** Zixi-integrated Receiver Decoder offers the ability to decode HEVC, H.264 & MPEG2 with support for HDR. Incorporating 12G-SDI, HDMI 2.0, 4 x 3G-SDI or SMPTE 2110 outputs and delivering up to 4K/UHD resolution, this software-based multichannel and multiformat decoder packs powerful performance in a versatile environment.

Sencore has integrated Zixi in its software-based **DMG 7000** Internet Protocol Gateway, allowing content providers to bridge the gap between unmanaged and managed networks and transmit content over the open internet with confidence. Focused on converting traditional MPEG/IP systems to internet-based protocols, its field and headend models can scale from single channel to multichannel applications, while its adaptable design allows it to be deployed on COTS hardware in a variety of form factors.

The Sencore **SCP 2100** is a cost-effective and easy to deploy signal acquisition platform for acquiring and backhauling nearly any video signals across the internet. With the SCP 2100, users can receive MPEG/IP, ASI, 8VSB, QAM, SDI and HDMI, perform MPEG4 encoding or transcoding and transmit back to their location via Zixi protocol.

Serving as a head-end-in-a-box, the Sencore **DMG 4000** is a modular platform for high density encoding, satellite reception, modulation and more, and can serve as a high-density video firewall for MPLS networks serving content to customer networks.

### Sencore's Integrated Solutions Allow for Zixi Contribution & Distribution



# MAKING THE INTERNET VIABLE FOR QUALITY VIDEO DELIVERY

## KEY ZIXI BENEFITS

- **Security** – Zixi provides best-in-class security enhanced with DTLS and AES standards-based protection
- **Reliability** – Contribute source streams with 99.999+% broadcast reliability with hitless failover provides redundant transmission options for higher reliability and disaster recovery
- **Low Latency** – With network adaptive forward error correction and recovery, proven sub 1 second live linear latency
- **Interoperability** – Zixi is compatible with the largest ecosystem of encoding devices and contribution sources
- **Centralized Management** – ZEN Master provides a centralized view of the entire Zixi enabled contribution and distribution network

## BEST-IN-CLASS RESILIENT & RELIABLE TRANSPORT

Users of Sencore's video solutions can leverage key elements of the Zixi Software-Defined Video Platform to transport broadcast-quality live video over any IP network: the Zixi protocol, video solutions stack and ZEN Master control plane.

The **Zixi protocol** is a resilient congestion and network-aware protocol that adjusts to varying network conditions and employs patented, dynamic Forward Error Correction techniques for error-free video transport over IP with 99.9999% uptime at minimal latency. It provides best-in-class security with DTLS and AES encryption, allows for protected multicast transport, provides bandwidth efficiency and enables encoder backpressure.

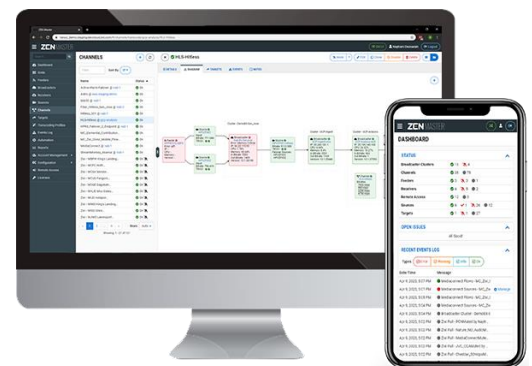
With minimum overhead to physical bandwidth, the Zixi protocol removes jitter, recovers and re-orders packets, smooths video delivery enabling the streaming of broadcast-quality video over any distance, while overcoming the varying network conditions of unmanaged networks such as the public Internet.

The **Zixi video solutions stack** provides essential software tools and core media processing functions that allows for transcoding, auto-slating and time-shifting over multiple transmission paths and bitrate adaptation to ensure reliability over any IP network, any protocol, and any cloud provider.

## SIMPLE STREAM CONFIGURATION, ORCHESTRATION AND MONITORING AT SCALE WITH ZEN MASTER

As a ZEN Master Certified partner, Sencore's solutions are integrated with **ZEN Master** Zixi's cloud-based control plane that allows for the simple configuration, orchestration and monitoring of the devices and appliances that are part of the video transport network.

The ZEN Master control plane offers the ability to access Sencore's products remotely and manage the inputs and outputs for hundreds of live videos and Zixi streams at scale.



Zixi's ZEN Master UI

## ABOUT SENCORE

Sencore is an engineering leader in the development of reliable, cost-effective signal transmission and content monitoring solutions for the broadcast, cable, satellite, and IPTV markets. Designed to meet the needs of an ever-changing industry, Sencore solutions ensure the efficient delivery of high-quality video from the source to the home, including the latest IP-based video delivery and multiscreen OTT technologies. More information about Sencore can be found at [www.sencore.com](http://www.sencore.com).

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## ABOUT ZIXI

Zixi provides a cloud based and on-premise Software-Defined Video Platform that enables the management, orchestration, monitoring, and delivery of broadcast-quality live and live linear video over IP and hybrid IP networks to broadcasters, enterprises, over-the-top video providers, and mobile service providers around the world. Over 10+ years, the Zixi Enabled Network (ZEN) of partners has grown to over 200 OEM and service providers with whom Zixi serves well over 700 customers representing most of the top media brands around the world with 20,000+ channels delivered daily. <https://zixi.com/>

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## QUICKLY GAIN WORKFLOW FLEXIBILITY & AGILITY

Sencore users can set up a connection or transport using Zixi in a matter of minutes with minimal staff vs. the hours and extensive teams needed to supervise more traditional infrastructure such as fiber or satellite. Enabled via a license, Zixi makes it easy to shift from hardware-based to software-defined solutions in order to quickly gain workflow flexibility and agility when it comes to enabling new revenue sources and cost-effective content exchange.